

# Anti-Glutaminase GLS Rabbit Monoclonal Antibody

**Catalog # ABO14085** 

## **Specification**

# **Anti-Glutaminase GLS Rabbit Monoclonal Antibody - Product Information**

Application WB, IHC, IF, ICC

Primary Accession

Host
Isotype

O94925
Rabbit
Rabbit IgG

Reactivity Rat, Human, Mouse

Clonality Monoclonal Format Liquid

**Description** 

Anti-Glutaminase GLS Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

# **Anti-Glutaminase GLS Rabbit Monoclonal Antibody - Additional Information**

#### Gene ID 2744

### **Other Names**

Glutaminase kidney isoform, mitochondrial, GLS, 3.5.1.2, K-glutaminase, L-glutamine amidohydrolase, Glutaminase kidney isoform, mitochondrial 68 kDa chain, GLS, GLS1, KIAA0838

#### Calculated MW

73461 MW KDa

# **Application Details**

WB 1:1000-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200</br>

## **Subcellular Localization**

Isoform 1: Cytoplasm, cytosol.

# **Tissue Specificity**

Isoform 1 and isoform 3 are detected in brain cortex. Isoform 3 is highly expressed in astrocytoma, ganglioglioma and ependymoma. Isoform 1 is highly expressed in brain and kidney, but not detected in liver. Isoform 3 is highly expressed in heart and pancreas, detected at lower levels in placenta, lung, pancreas and kidney, but is not detected in liver. Isoform 2 is expressed in cardiac and skeletal muscle..

## **Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

### **Immunogen**

A synthesized peptide derived from human Glutaminase

#### **Purification**

Affinity-chromatography



Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

# **Anti-Glutaminase GLS Rabbit Monoclonal Antibody - Protein Information**

Name GLS

Synonyms GLS1, KIAA0838

#### **Function**

Catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine. Plays a role in maintaining acid-base homeostasis. Regulates the levels of the neurotransmitter glutamate, the main excitatory neurotransmitter in the brain (PubMed:<a

href="http://www.uniprot.org/citations/30239721" target="\_blank">30239721</a>, PubMed:<a href="http://www.uniprot.org/citations/30575854" target="\_blank">30575854</a>, PubMed:<a href="http://www.uniprot.org/citations/30970188" target="\_blank">30970188</a>).

### **Cellular Location**

[Isoform 1]: Mitochondrion {ECO:0000250|UniProtKB:P13264}. Cytoplasm, cytosol. Note=The 74-kDa cytosolic precursor is translocated into the mitochondria and processed via a 72-kDa intermediate to yield the mature 68- and 65-kDa subunits {ECO:0000250|UniProtKB:P13264} [Glutaminase kidney isoform, mitochondrial 68 kDa chain]: Mitochondrion matrix {ECO:0000250|UniProtKB:P13264} Note=Produced by the proteolytic processing of the 74-kDa cytosolic precursor. {ECO:0000250|UniProtKB:P13264}

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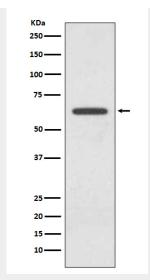
# **Anti-Glutaminase GLS Rabbit Monoclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

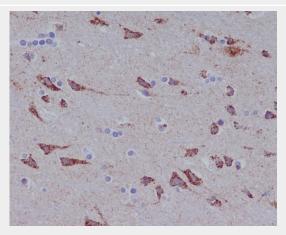
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Anti-Glutaminase GLS Rabbit Monoclonal Antibody - Images





Western blot analysis of Glutaminase expression in 293T cell lysate.



Immunohistochemical analysis of paraffin-embedded human brain, using Glutaminase Antibody.